

Grade 3

NIIB3: *Demonstrate fluency in the use of both addition and subtraction algorithms and explain the steps involved.

NIA2: Read and write whole numbers.

Key: D (66,473)

The town library has 65,473 books. This year the library will buy one thousand more books. How many books will the library have altogether?

☐ 65,573

☐ 75,473

☐ 65,483

☐ 66,473

Choice analysis:

A. Add 100

B. Add 10,000

C. Add 10

D. Key

Grade 3

MIIC1: Develop a sense for measurement by using appropriate benchmarks (e.g., the distance from the elbow to the index finger is about a foot, a paper clip is about a gram).

MIIB1: Determine an appropriate measurement unit to measure time, length, weight, and volume (e.g., student chooses centimeters instead of meters to measure a pencil).

Key: A (1 cup)

What is the amount of milk Sally might use with her cereal?

- ☐ 1 cup
- ☐ 1 pint
- ☐ 1 quart
- ☐ 1 gallon

Choice analysis:

- A. Key
- B. Familiar unit of measure
- C. Familiar unit of measure
- D. Familiar unit of measure

Grade 3

NIIB3: Demonstrate fluency in the use of both addition and subtraction algorithms and explain the steps involved.

NIIC1: Use the inverse relationships between addition and subtraction to solve problems.

Key: B (4)

$$\begin{array}{r} 357 \\ + 1\boxed{3} \\ \hline 500 \end{array}$$

What is the missing digit?

☐ 0

☐ 4

☐ 5

☐ 6

Choice analysis:

- A. Confused by zero in tens place of addend
- B. Key
- C. Forgot to regroup from units
- D. Plausible option, but incorrect

Grade 3

NIIB3: Demonstrate fluency in the use of both addition and subtraction algorithms and explain the steps involved

Key: B (22,192)

Nick played a video game. He scored 13,567 points in the first round and 8,625 points in the second round. How many total points did Nick score?

- ☐ 21,192 points
- ☐ 22,192 points
- ☐ 94,717 points
- ☐ 99,817 points

Choice analysis:

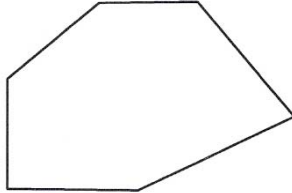
- A. Forgot to regroup from units
- B. Key
- C. Left aligned numbers before adding and failed to regroup
- D. Left aligned numbers before adding

Grade 3

MIA2: Compare the size of a given angle with a right angle (*greater than, less than, or equal to*) and classify as obtuse, acute, or right.

Key: B (4)

Use this figure to answer the question.



How many obtuse angles does this figure appear to have?

☐ 2

☐ 4

☐ 5

☐ 6

Choice analysis:

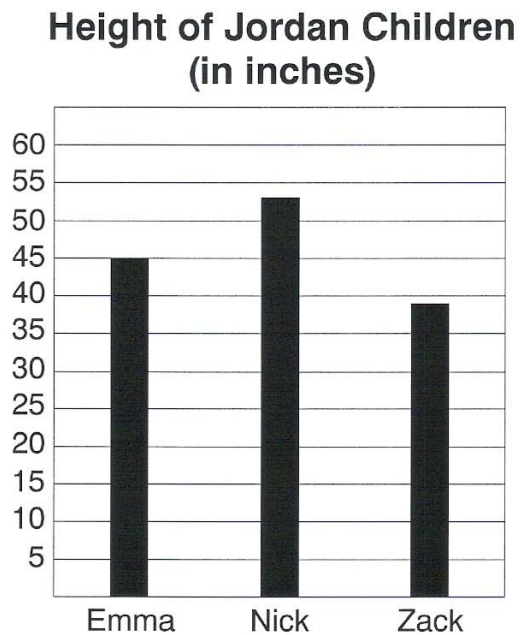
- A. Failed to count all of the obtuse angles
- B. Key
- C. Included right angle in count
- D. Counted all of the angles

Grade 3

DIC2: Read and interpret information from tables, pictographs, bar graphs, and line (dot) plots.

Key: C (53 inches)

Use this graph to answer the question.



About how tall is Nick?

- ☐ 45 inches
- ☐ 50 inches
- ☐ 53 inches
- ☐ 55 inches

Choice analysis:

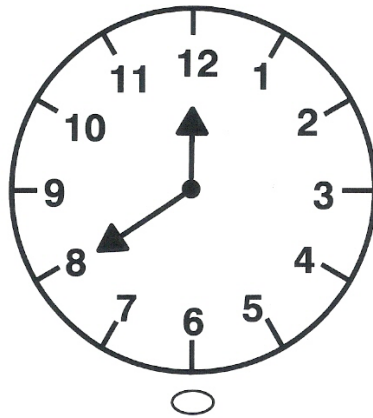
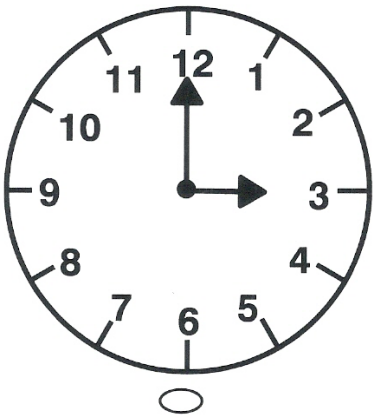
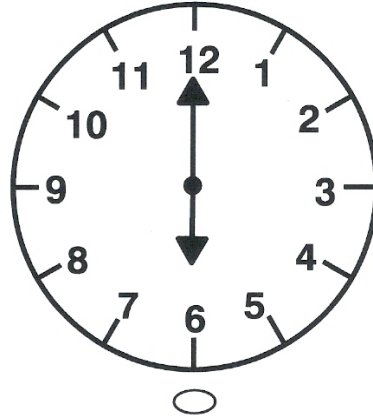
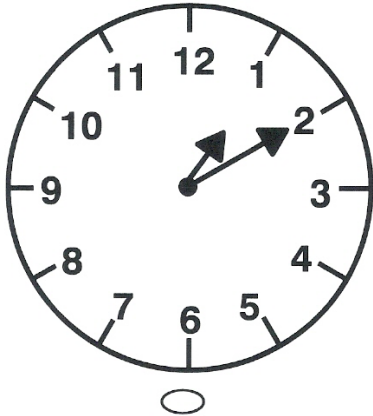
- A. Used the first bar
- B. Used line below the top of Nick's bar (failed to interpolate)
- C. Key
- D. Used line above the top of Nick's bar (failed to interpolate)

Grade 3

MIA2: Compare the size of a given angle with a right angle (*greater than*, *less than*, or *equal to*) and classify as obtuse, acute, or right.

Key: C

A right angle is formed by the hands of which clock?



Grade 3

AIA1: Describe, create, and extend numeric patterns with and without models and calculators

Key: A) 21

B) Add four

Constructed response: 2 points

a. In the blank, write the next number in the pattern.

5 9 13 17 _____

b. What is the rule for the pattern?

Grade 3

NIB1: Recognize equivalent representations for the same whole number by decomposing and composing whole numbers up through three digits.

NIB2: Write three-digit whole numbers in standard form, in expanded form, and in words

Key: A (637)

$$600 + 30 + 7$$

Which number below is the same as the numbers in the box?

☐ 637

☐ 673

☐ 6307

☐ 6370

Choice analysis:

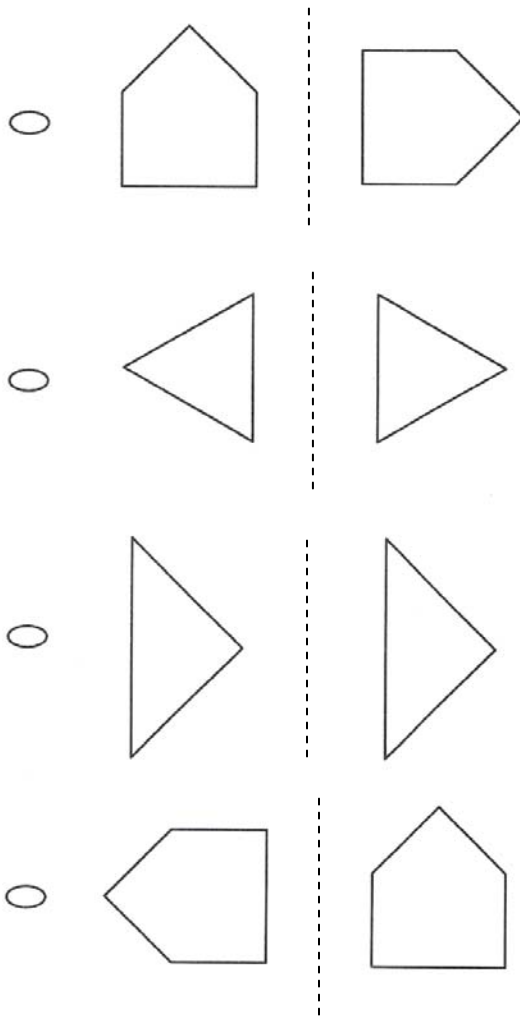
- A. Key
- B. Reversed tens and units digits
- C. Used both digits of 30
- D. Added zero

Grade 3

GIIB1: Use slides, flips, and turns informally with models to determine whether or not two shapes are congruent.

Key: B

Which pair of figures shows a flip over the line?



Choice analysis:

- A. Rotation
- B. Key
- C. Translation
- D. Rotation

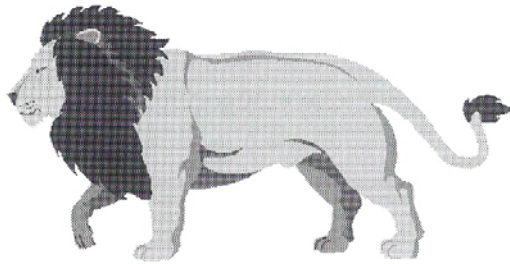
Grade 3

MIIB1: Determine an appropriate measurement unit to measure time, length, weight, and volume (e.g., student chooses centimeters instead of meters to measure a pencil).

Key: A (kilogram)

Which is the most reasonable unit of measurement for finding the mass of a lion?

- ☐ kilograms
- ☐ ounces
- ☐ grams
- ☐ liters



Choice analysis:

- A. Key
- B. Familiar customary unit of weight
- C. Familiar metric unit of weight
- D. Familiar metric unit

Grade 3

A1IC1: Use concrete or pictorial models and symbols to identify missing addends or factors in equations that express relationships between two quantities

Key: A

Judy had 58 baseball cards. Her sister lost some of them.
Judy has 37 cards left.

Which sentence describes what happened?

☐ $58 - \square = 37$

☐ $58 + 37 = \square$

☐ $58 + \square = 37$

☐ $58 - 37 = \square$

Choice analysis:

- A. Key
- B. Uses a given numbers with an incorrect operation
- C. Uses given numbers and the symbol for sister's unknown quantity with an incorrect operation
- D. Uses the correct operation but misplaces the unknown